AMSAT Weekly Satellite Report
Issue: WSR-092
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Sources: amsat-ans-2006-wsr-092.txt

This report is organized into 4 parts.
Part 1 - operational analog amateur satellites.
Part 2 - operational digital amateur satellites.
Part 3 - non - operational satellites
Part 4 - proposed satellites

SB SAT @ AMSAT W8ISS ANS-092.S1
WSR 092 Part 1 04/02/2006

AMSAT NEWS SERVICE BULLETIN 085.S1 FROM AMSAT HQ
SILVER SPRING, MD, April 02, 2006
TO ALL RADIO AMATEURS
BID: $ANS-092.S1

VO-52 HAMSAT
Catalog Number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/V - Indian Transponder

Proposed frequencies:

Indian Transponder:
Uplink : 435.220 MHz to 435.280 MHz LSB/CW
Downlink: 145.870 MHz to 145.930 MHz USB/CW
Beacom : 145.859330 MHZ CW

Dutch Transponder:
Uplink : 435.225MHz to 435.275MHz LSB/CW
Downlink: 145.875MHz to 145.925MHz USB/CW
Beacon : 145.860MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon, see below:

Indian transponder - unmodulated carrier on
145.936MHz.
Dutch Transponder - CW message on 145.860MHz.
[03192006]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Testing
Curent Modes: FM Repeater, V/U-High power
Digipeater - OFF

Analog voice downlink: 435.300 MHz FM
         435.150 MHz FM

Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM 67Hz PL tone
1268.700 MHz FM 67Hz PL tone

Digital Downlinks: 435.150 MHz FM, 38k4 Digital, PBP, 1 watt output
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM, 9k6 Digital, Pacsat Broadcast Protocol

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04022006]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Uplink: 145.850 MHz (67.0 Hz PL tone) (See below for operating procedures)
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

There have been unconfirmed reports on the amsat-bb remailer that SO-50 has
shifted downlink frequency as much as 5khz up. This both from Europe.

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz. The
order of operation is thus: (allow for Doppler as necessary)

1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the repeater
on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset the 10
minute timer.
[01012006]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: OPERATIONAL

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplink: 145.850 145.870 145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

unOfficial Webpage: http://www.amsat.org/amsat/sats/n7hpr/fo29.html
[11132005]
=====
AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Uplink: 145.850 MHz FM
Downlink: 436.795 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[01012006]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational until March 14th

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
   432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
  145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
  145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz
  145.972 MHz
  435.100 MHz
 2304.100 MHz

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php
The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
AO-7 users are requested to log their contacts and observations about
AO-7, especially any unexpected mode changes.
AO-07 telemetry software webpage:
http://www.qsl.net/k3tz/files/K3TZ_AO-07_Telemetry_Decoder_0.5.zip

This from Emily, N1DID:
AO-7 is Operational
As of 15 March 2006 AO-7 entered eclipse on the ascending node of it's

orbit
for a short period of time and will turn off during that period, but
other-
wise remains operational providing stations observe QRP power levels. It
is
difficult to tell if the 24 hour timer will be reset or if there is
enough
energy to keep it running during the short periods of eclipse AO-7
experiences for the next few weeks. We should know in a few days by
observing
the modes reported on each orbit.

Please keep your power low! For additional information please read the
AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[ANS-WSR wishes to thank Emily Clarke, N1DID]
[03192006]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational
Current Mode: Packet / Occasional Voice
Digipeater: ON

The current Expedition 12 crew is:
Commander: William McArthur - KC5ACR
Flight Engineer: Valery Tokarev - (no call)

Expedition 13 crew set to lift off on March 30th at 0230z with:
Commander: Pavel Vinogradov, RV3BS
Flight Engineer: Jeff Williams, KD5TVQ
Brazillian Astronaut: Marcos Pontes, PY0AEB

Digital/APRS:
Worldwide packet uplink: 145.990 MHz FM
Worldwide packet downlink: 145.800 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Russian: RS0ISS, RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official Webpage: http://www.rac.ca/ariss
Official Fan club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/

Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[03262006]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-092.S2
WSR 092 Part 2 04/02/2006

AMSAT NEWS SERVICE BULLETIN 092.S2 FROM AMSAT HQ
SILVER SPRING, MD, April 02, 2006
TO ALL RADIO AMATEURS
BID: $ANS-092.S2

CO-56 XI-V
Catalog Number: 28895
Launch Date: October 27, 2005

Status: Operational only within range of Ground station in Japan

Telemetry Downlink: 437.345MHz - FSK 1200bps using AFK protocol
Beacon Downlink: 437.465MHz - CW about 50 WPM

Callsign: JQ1YGW

Oficial Webpage: http://www.space.t.u-tokyo.ac.jp/gs/satinfo-e.html#xi5
Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03122006]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational
Current Mode: Packet
Digipeater: ON

The current Expedition 12 crew is:
Commander: William McArthur - KC5ACR
Flight Engineer: Valery Tokarev - (no call)

Expedition 13 crew set to lift off on March 30th at 0230z with:
Commander: Pavel Vinogradov, RV3BS
Flight Engineer: Jeff Williams, KD5TVQ
Brazillian Astronaut: Marcos Pontes, PY0AEB

Digital/APRS:
Worldwide packet uplink: 145.990 MHz FM
Worldwide packet downlink: 145.800 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Russian: RS0ISS, RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official Webpage: http://www.rac.ca/ariss
Official Fan club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line is NOT translated from Russian and posted.
[03262006]
=====
PCSAT-2
Catalog Number: 25544
Launch Date: August 1, 2005

Activated: August 3, 2005
Status: Operational
Current Mode: Digipeater

Digital Downlink: 435.275 Mhz
Digital Uplink: 145.825 Mhz

PSK-31 Downlink: 435.275 Mhz
PSK-31 Uplink: 29.401 Mhz

Broadcast:
BBS:

Official Webpage: http://web.usna.navy.mil/~bruninga/pcsat2.html
PCSAT2 APRS Packet page: http://www.findu.com/cgi-bin/pcsat2.cgi
aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/

This from Robert Bruninga, WB4APR:
PCSAT2 has now returned to its 435.275 downlink to avoid any potential for QRM to ARISS school contacts. It will remain in this mode for several weeks until we see how the new crew schedule works out.

Modes remaining available:

    * Packet up on 145.825 and down on 435.275
    * High power PSK-31 and CW up on 29.401 also with downlink on 435.275

To activate the PSK transponder, just connect to PCSAT2 on the packet uplink.
[ANS-WSR wishes to thank Robert Bruninga, WB4PR for this weeks information.]
[04022006]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Testing
Curent Modes: FM Repeater, V/U-High power
Digipeater - OFF

```
Analog voice downlink: 435.300 MHz FM
         435.150 MHz FM
Analog voice uplink: 145.880 MHZ FM
       145.880 MHz USB
       145.920 MHz FM 67Hz PL tone
      1268.700 MHz FM 67Hz PL tone

Digital Downlinks: 435.150 MHz FM, 38k4 Digital, PBP, 1 watt output
    2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM, 9k6 Digital, Pacsat Broadcast
  Protocol (PBP)

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
   TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04022006]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Operational

General Usage Uplink/Downlink:145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org
aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/

This from Robert Bruninga, WB4APR:
PCSAT-1 reset  back to W3ADO-1 at 2336z or so on 23 March after a good
16 day
run of fully OPS jointly  with PCSAT2 on ISS.  During that time numerous
dual
hop packets were reported.

PCSAT2 will remain with a 2m downlink on 145.825 until the next school
con-
tact on the 28th.  From now till then, it will also keep its 10m PSK-31
to
435.275 FM transponder enabled for anyone to experiment with using
either CW
or PSK.

Just use one rig to CONNECT to PCSAT2  on 145.825 to turn on the
transponder
and use your 10m CW or PSK rig to TX and your UHF FM receiver to listen.
[ANS-WSR wishes to thank Robert Bruninga, WB4PR for this weeks
information.]
[03262006]
=====
CO-55 CUTE-1
Catalog number: 27844
```

Launched: June 30,2003

Status: Operational

Uplink: ?
Downlink: 436.8375 CW
437.4700 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)
Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[03122006]
=====
GO-32 TECHSAT-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Downlink: 435.225 MHz FM (9600-baud FSK)
(435.325 n/a - temperature problems)
Uplinks: 145.850, 145.890, 145.930 FM
1269.700, 1269.800, 1269.900 FM
Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

Mineo, JE9PEL, reports February 02, 2006:
4XTECH-12>STATUS [02/02/06 20:39:52] <UI R>:
UTC: Thu Feb 02 11:39:35 2006 | Gurwin Techsat1B (V9.86)
BBS(9.86) is active ,AsherSpaceResearchInst greets you.
2 Users/8 Broadcasts, Uplink freq:145.890,145.850,145.930, 1269.800,
1269.900

TechRam2V9.86
TechRam2V9.86.

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[ANS-WSR wishes to thank Mineo, JE9PEL, for this weeks information.]
[02122006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: Semi-operational, the digipeater command is on and open for
APRS users.

Uplink: 145.90 145.92 145.94 145.96 MHz FM
(using 1200-baud Manchester FSK)
Downlink: 437.026 MHz SSB (1200-baud PSK)
Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
   PSK 437.025 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html

This from Paul Williamson,KB5MU:
There has been no loss of command function on AO-16.

The BBS is down because of localized memory failures in the mass memory used
for message (file) storage, caused presumably by radiation. It would be poss-
ible to modify the on-board BBS software to work around these memory failures
and the command team did request that this be done, but it has not been
aggressively followed up due to the apparent lack of interest in 1200 bps
capabilities.

The S-band beacon isn't broken to the best of my knowledge, it's just turned
off. The power budget doesn't allow the S-band beacon to be run continuously
without reducing the main downlink to flea power. I can't explain VK5DG's
observation of telemetry indicating 700mw of output from the S-band trans-
mitter, but perhaps someone who has paid more attention to the telemetry
could explain it.

There hasn't been much communication within the AO-16 command team in a long
time, since the satellite is pretty much self-sufficient in its current mode
and we haven't been working on any projects to change things. At least a few
of us are still standing by in case anything comes up.

Mike Rupprecht, DK3WN reports the following:
this is AO-16 telemetry from today :

```
ctrl: 3 {UI}  PID: F0 {No L3}  Total Frame Bytes: 138
from PACSAT-1 to TLM:
   1 > 61 85 1D 44 00 61 01 92 02 18 03 84 04 5C 05 A0 06 4C 07 88
  21 > 08 52 09 91 0A A1 0B D0 0C E7 0D D8 0E 10 0F 2D 10 D2 11 81
  41 > 12 00 13 BE 14 8A 15 85 16 93 17 90 18 92 19 8C 1A 8C 1B 92
  61 > 1C 83 1D 89 1E B5 1F 57 20 8C 21 65 22 70 23 4B 24 26 25 35
  81 > 26 01 27 01 28 64 29 00 2A 07 2B 01 2C 00 2D 5B 2E 66 2F 7B
 101 > 30 7C 31 7E 32 96 33 00 34 7D 35 7D 36 83 37 76 38 90 39 A9
 121 > 3A 01

translated :
--------------------------------------------------------------------------
-----------
uptime is 2226/12:31:51.  Time is Sun Mar 19 16:22:57 2006
PACSAT
Rx D DISC        0.482 k  Rx D S meter   146.000 C  Rx C DISC
6.953 k
Rx C S meter   132.000 C  Rx B DISC        1.706 k  Rx B S meter
160.000 C
Rx A DISC        2.830 k  Rx A S meter   136.000 C  Rx E/F DISC
2.690 k
Rx E/F S meter 145.000 C  +5 Volt Bus      4.911 V  +5V Rx Current
0.052 A
+2.5V  VREF      2.495 V  8.5V BUS         8.446 V  IR Detector
16.000 C
LO Monitor I     0.002 A  +10V Bus        10.500 V  GASFET Bias I
0.003 A
Ground REF       0.000 V  +Z Array V      19.437 V  Rx Temp
17.546 D
+X (RX) temp    20.572 D  Bat 1 V          1.263 V  Bat 2 V
1.267 V
```

```
Bat 3 V          1.262 V  Bat 4 V          1.280 V  Bat 5 V
1.284 V
Bat 6 V          1.254 V  Bat 7 V          1.312 V  Bat 8 V
1.299 V
Array V         20.345 V  +5V Bus          4.749 V  +8.5V Bus
8.040 V
+10V Bus        10.175 V  BCR Set Point  120.111 C  BCR Load Cur
0.528 A
+8.5V Bus Cur    0.032 A  +5V Bus Cur      0.214 A  -X Array Cur
-0.008 A
+X Array Cur    -0.021 A  -Y Array Cur     0.251 A  +Y Array Cur
-0.018 A
-Z Array Cur    -0.007 A  +Z Array Cur    -0.018 A  Ext Power Cur
-0.020 A
BCR Input Cur    0.300 A  BCR Output Cur   0.318 A  Bat 1 Temp
26.623 D
Bat 2 Temp      26.018 D  Baseplt Temp    24.807 D  PSK TX RF Out
2.468 W
RC PSK TX Out    0.005 W  PSK TX HPA Tem  25.413 D  +Y Array Temp
25.413 D
RC PSK HPA Tem  21.782 D  RC PSK BP Temp  29.648 D  +Z Array Temp
13.916 D
S band TX Out    0.726 W  S band HPA Tem   1.000 C

Total Array C= 0.251 Bat Ch Cur=-0.210 Ifb= 0.049 I+10V= 0.479
TXA:1 TXB:0 TX Pwr:B SbT:0 BCR:7C SCR:3 LP:6 HI:D BT:1E WC:25

Example for very rare activity over europe - 2 german and a swiss
station ->
conversation german :-)
It work's !!!

fm PACSAT-1 to LSTAT ctl UI pid F0 [DAMA] - 15.03.06 18:50:26
I P:0x1D00 o:0 l:6654 f:7171, d:1 st:1
fm HB9SKA to DK3WN via PACSAT-1* ctl I00+ pid F0 - 15.03.06 18:50:27
Hallo Mike
fm DK5EC to JO30OR via PACSAT-1* ctl UI^ pid F0 - 15.03.06 18:50:30
=5042.15N/00714.82E-Karl 73 from Koenigswinter
fm HB9SKA to CQ via PACSAT-1* ctl UI^ pid F0 - 15.03.06 18:50:31
=4726.07N/00812.00E-********** pse connect me! **********
fm DK5EC to JO30OR via PACSAT-1* ctl UI^ pid F0 - 15.03.06 18:51:00
/00714.82E-Karl 73 from Koenigswinter
fm DK3WN to CQ via PACSAT-1* ctl UI^ pid F0 - 15.03.06 18:51:24
73 ihr beiden de Mike
fm HB9SKA to CQ via PACSAT-1* ctl UI^ pid F0 - 15.03.06 18:51:41
=4726.07N/00812.00E-********** pse connect me! **********
fm DK3WN to CQ via PACSAT-1* ctl UI^ pid F0 - 15.03.06 18:52:04
Hallo Thomas, Hallo Karl
fm DK5EC to ALL via PACSAT-1* ctl UI pid F0 - 15.03.06 18:52:49
:HB9SKA   :hallo, ist ja richtig was los hier hallo Thomas
fm DK5EC to ALL via PACSAT-1* ctl UI pid F0 - 15.03.06 18:52:54
:BLN0QSLs :DK3WN,PACSAT-1,HB9SKA{UISS41}
fm DK3WN to CQ via PACSAT-1* ctl UI^ pid F0 - 15.03.06 18:52:59
Hallo Ihr Beiden - QSL ???
fm DK5EC to ALL via PACSAT-1* ctl UI pid F0 - 15.03.06 18:53:23
... wie im Contest hi
:DK3WN    :hallo, ist ja richtig was los hier hallo Mike
fm DK5EC to JO30OR via PACSAT-1* ctl UI^ pid F0 - 15.03.06 18:53:20
=5042.15N/00714.82E-Karl 73 from Koenigswinter
fm DK3WN to CQ via PACSAT-1* ctl UI^ pid F0 - 15.03.06 18:53:33
endlich mal ein wenig Aktivit?t
fm PACSAT-1 to TIME-1 ctl UI pid F0 [DAMA] - 15.03.06 18:53:52
 HT: uptime is 2226/12:43:51.  Time is Sun Mar 19 16:34:57 2006
Hope, this give you stimulus!
```

[ANS-WSR wishes to thank Paul Williamson,KB5MU and Mike Rupprecht, DK3WN for
this weeks information]
[03192006]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational?

Telemetry Downlink: 145.826 MHz. FM (1200-baud AFSK).
approx. 10 days ON, 10 days OFF
Mode-S Beacon: 2401.500 MHz. ... OFF
UHFBeacon: 435.025 MHz. ... OFF

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Official webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm

This from Clive, G3CWV:

OSCAR-11 REPORT

27 March 2006

On 01 March OSCAR-11 achieved 22 years in orbit, and inspite of numerous problems, it still continues to transmit good signals.

During the period 14 February to 26 March 2006 the VHF beacon on 145.826 MHz
has been heard from 22 February to 04 March, and from 14 to 24 March.

Signals have been very consistent and excellent copy has been obtained on all
passes received. If the current mode of operation continues, the beacon should switch ON around 04 April 2006.

The on-board clock continues to show a very large accumulated error. On 24
March it was 22.14308 days slow. However, the clock is now very stable. During the last month it gained 2.5 seconds, which is approximately half the
monthly gain, observed when the satellite was fully operational! The observa-
tions of clock errors suggest that the clock may slow or stop when the bat-
tery voltage is low.

All the analogue telemetry channels, 0 to 59 are zero, ie they have failed.
The status channels 60 to 67 are still working.

The satellite is now in continuous sunlight until around 06 May, when eclipses will start again. This should help the satellite to continue trans-
mitting, although continuous sunlight can cause problems due to excessive
temperatures. Power supply problems can be caused by poor pointing attitude,

ie the sunlight illuminating the ends of the satellite, instead of the solar
arrays.

The watchdog timer now appears to have resumed operation on the 20 day cycle.
During the last two months the ON/OFF times have been very consistent, and
many observations show this to be 20.7 days, ie. 10.3 days ON followed by
10.4 days OFF. However, at any time, poor solar attitude, and battery pro-
blems, may result in a low 14 volt line supply, which may cause the beacon to
switch OFF prematurely, and reset the watchdog timer cycle.

I am indebted to Bob G4VRC, Gustavo LW2DTZ, Mike DK3WN, John K7RQN and John
G4PWG for their reception reports. All have reported good signals from the
VHF beacon. Many thanks for those reports.

The Beacon frequencies are -

VHF 145.826 MHz. AFSK FM ASCII Telemetry

UHF 435.025 MHz. OFF

S-band 2401.5 MHz. OFF

Listeners to OSCAR-11 may be interested in visiting my website which contains
an archive of news & telemetry data. It also contains details about using a
soundcard or hardware demodulators for data capture. There is software for
capturing data, and decoding ASCII telemetry. The URL is:
http://www.users.zetnet.co.uk/clivew/
[ANS-WSR wishes to thank Clive Wallis, G3CWV for this weeks information]
[03262006]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-092.S3
WSR 092 Part 3 04/02/2006

AMSAT NEWS SERVICE BULLETIN 092.S3 FROM AMSAT HQ
SILVER SPRING, MD, April 02, 2006
TO ALL RADIO AMATEURS
BID: $ANS-092.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

AO-54 SUITSAT
Catalog Number:28934
Release Date: February 3,2006

Status: Non-operational
Modes : FM Voice Telemetry/Greetings
 FM SSTV

Callsign: RS0RS
Downlink: 145.990 FM

Official webpage: http://www.suitsat.org
[02262006]
=====
NCUBE-2
Catalog Number: 28894
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.25
[01012006]
=====
XO-53 SSETI
Catalog Number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 FM 67Hz CTCSS
Voice Downlink: 2401.835 FM
Packet Up/Downlink: 437.250 9k6 packet
Packet Downlink 2401.835 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01292006]
=====
POSAT-1 PO-28
Catalog Number: 22829
Launched : September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950

Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html.
POSAT-1
webpage:http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launched: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB
Beacon: 145.810 MHz (unmodulated carrier)

AO-10 has been locked into a Mode-B, 70-cm uplink and
2-meter downlink for several years.

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====

IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: Downlink only

Uplink: 145.875 145.900 145.925 145.950 MHz FM (1200-baud)
Downlink: 435.808 MHz PSK
Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01012006]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB
Beacon: 29.408 MHz
Robot: 29.454 MHz
[05232004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB
Beacon: 145.860 MHz
Robot: 145.908 MHz
[05232004]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink 145.975 MHz FM
Downlink 435.070 MHz FM
[05092004]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM
Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01092005]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational?

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB
Beacon: 29.352 MHz (intermittent)
SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplink: 145.84 145.86 145.88 145.90 MHz FM
(using 1200-baud Manchester FSK)
CW downlink: 437.125 MHz
Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)
Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[05232004]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[08152004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM
Broadcast Callsign: HLO1-11
BBS: HLO1-12

Jim, AA7KC, reports that KO-23's downlink transmitter continues in a
non-operational status.
[05092004]
=====
KO-25 KITSAT
Catalog number: 22828
Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM (9600-baud FSK)
Downlink: 436.500 MHz FM
Broadcast Callsign: HL02-11

BBS: HL02-12
[05092004]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm

[ANS-WSR has no further information]
[05232004]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

STatus: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz and 145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[08082004]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlink: 437.025 MHz 437.400 MHz
Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA
web site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[05092004]
=====
AO-40 AMSAT OSCAR 40

Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplink V-band 145.840 - 145.990 MHz CW/LSB
U-band 435.550 - 435.800 MHz CW/LSB
L1-band 1269.250 - 1269.500 MHz CW/LSB
L2-band 1268.325 - 1268.575 MHz CW/LSB
S1-band 2400.350 - 2400.600 MHz CW/LSB
Downlink: S2-band 2401.225 - 2401.475 MHz CW/USB
K-band 24,048.010 - 24,048.060 MHz CW/USB
Beacon: 2401.323, 24,048.035
[05232004]

SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational
Downlink: 437.075 MHz
Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[08152004]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz
Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[08152004]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
callsign KE6QMD, as per the user service agreement located at the
following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Operational

Uplink: 145.850 or 145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz
Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial land and weather imaging payloads offers FM and FSK Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a collaborative effort between the Malaysian government and Surrey Satellite Technology Ltd.
[11202005]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink 435.275 1200-baud AFSK
Downlink 145.825 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01012006]
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SB SAT @ AMSAT W8ISS $ANS-092.S4
WSR 092 Part 4 04/02/2006

AMSAT NEWS SERVICE BULLETIN 085.S4 FROM AMSAT HQ
SILVER SPRING, MD, April 02, 2006
TO ALL RADIO AMATEURS
BID: $ANS-092.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

PHASE 3E ?O-??
Catalog Number:
Proposed Launch Date: Early 2006

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/

[ANS-WSR wishes to thank William Leijenaar, PE1RAH for this week's report]
[10022005]
NNNN
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/amsat/listserv/menu.html

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
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/EX